

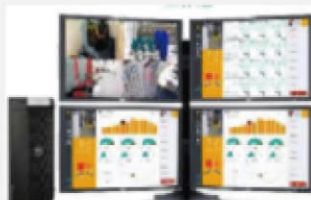
## Product characteristics

- Host running Android 7.1 operating system, using the latest face detection, recognition model, fast face capture, intelligent face quality judgment, accurate face recognition;
- Wide dynamic double-shot live anti-counterfeiting, thoroughly solve all kinds of photos on various carriers of deception;
- A real-time temperature monitoring, temperature tolerance range accurate to  $0.3^{\circ}$ , temperature detection distance of 0.5-1 meters;
- RGB real-time feedback recognition results of three-color complementary lamp, night infrared, RGB double complementary lamp;
- Support serial port, Wigan 26,34 output input, output content support configuration;
- Support relay switch signal, access control, safety and worry;
- **Support devices for local storage of 10,000 libraries:**

- (a) The cloud platform device supports the simultaneous storage of 50,000 face photos (less than 400 KB), 10 million recognition records (0.45 KB) and 200,000 live capture photos;
- (b) Local area network devices support the simultaneous storage of 30,000 face photos (photos calculated at 100 KB) and 1 million recognition records (including the most recent 40,000 live capture photos, photos calculated at 100 KB);

## Product application

It is suitable for office area, hotel, gate, office building, school, shopping mall, shop, community, public service and management project.



Intelligent and efficient detection  
One second positioning  
Monitoring and alarm

Access control and monitoring linkage

High efficiency



Zero contact  
Avoid cross infection  
Saving labor cost

Hand held work instead

security



Experience of senseless traffic  
Convenient access experience  
High frequency use by owners

Access control, monitoring linkage,  
large screen display

Travel experience of owners



## Algorithm brand: Hong soft

- 1: N face recognition, face database supports 2 W faces, top1 hit rate 99.99%;
- The accuracy of 1:1 authentication is over 99%.
- **Rapid identification:**

(a) Face tracking and detection takes about 20 ms;

(b) Face feature extraction takes about 200 ms;

(c) In vivo face detection takes 0.2 ms;

(d) Feature comparison takes 0.5 ms(10000 face database, multiple identification takes average);

- Support stranger detection, stranger level configurable;
- Support for face recognition or stranger detection when the scene photo preservation;
- Support public network, LAN use deployment mode;
- Support HTTP、TCP mode interface docking;
- Support screen display content configuration;
- Support to identify distance configuration.

## Product specifications

| Product Model | Category      | Performance                      |
|---------------|---------------|----------------------------------|
| Camera        | Resolution    | 200W                             |
|               | Type          | RGB+ infrared                    |
|               | aperture      | mm 4.0                           |
|               | Focal length  | M 0-2                            |
|               | White Balance | Automatic                        |
| Screen        | Dimensions    | 8 inch, full view IPS LCD screen |
|               | Resolution    | 800*1280                         |
|               | Brightness    | 400cd/m2                         |
| System        | CPU           | 4 cores, RK3288                  |
|               | DDR3          | 2GB (optional 4 G)               |
|               | Memory        | 8GB (optional 16 G、32G)          |
|               | Image         | Built-in dual ISP                |



|                                |                                |                                                                                                                           |
|--------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|                                | processing                     |                                                                                                                           |
|                                | Operating system               | Android 7.1                                                                                                               |
|                                | Touch screen                   | Optional touch screen                                                                                                     |
| Network                        | Wifi                           | G WiFi 2.4                                                                                                                |
|                                | Model                          | 802.11 b/g/n                                                                                                              |
|                                | Ethernet                       | 10/100 M Netting                                                                                                          |
| Accessories                    | Supplementary Light            | Infrared and LED lights                                                                                                   |
|                                | Card reading module (reserved) | IC/ID card reader, ID card reader<br>QR code reader, thermal imaging temperature detection module                         |
|                                | Network module (optional)      | 4G module                                                                                                                 |
| Machine interface              | Wigan Interface                | Can support Wigan input and Wigan output, support Wigan 26 and 34 protocol adaptation                                     |
|                                | USB interface                  | USB_Host 2.0 1                                                                                                            |
|                                | OTG interface                  | USB OTG 1 one                                                                                                             |
|                                | Serial port 232                | One RS232 interface, one WG input, one WG output                                                                          |
|                                | Reset Interface                | Side hole, external key                                                                                                   |
|                                | Audio                          | 1 line out Road                                                                                                           |
|                                | POE                            | Support POE Power Supply (Selection)                                                                                      |
| Temperature measurement module | Thermal imaging                | Thermal imaging temperature measurement, deviation $\pm 0.3^{\circ}\text{C}$ , ranging 30-120 cm<br>Imaging pixels :32*32 |
| Function                       | Local offline usage            | 2 W local face bank                                                                                                       |
|                                | Face detection                 | Support for simultaneous detection and tracking of 5 individuals                                                          |
|                                | 1: N face recognition          | Support 1/100,000 error rate ,99% pass rate                                                                               |
|                                | 1: 1                           | Support optional swipe card module, ID card module can achieve 1:1 face comparison                                        |
|                                | Stranger                       | Support                                                                                                                   |



|                         |                                     |                                                                                              |
|-------------------------|-------------------------------------|----------------------------------------------------------------------------------------------|
|                         | testing                             |                                                                                              |
|                         | Identification distance recognition | Support                                                                                      |
|                         | Remote upgrade of equipment         | Support                                                                                      |
|                         | Equipment interface                 | Equipment management, authority management, personnel / photo management, record query, etc. |
| Conventional parameters | Horn                                | Ω2W 8                                                                                        |
|                         | OSD languages                       | English and Chinese multilingual OSD operations                                              |
|                         | Protection level                    | IP64, support waterproof and dustproof, support outdoor use                                  |
|                         | Adapter                             | Power adapter 12 V/1.5A                                                                      |
|                         | Equipment power                     | 20W(MAX)                                                                                     |
|                         | Working temperature                 | -10℃~+60℃                                                                                    |
|                         | Working humidity                    | 10~90% relative humidity, no condensation                                                    |
|                         | Electrostatic static electricity    | 4K/8K                                                                                        |
|                         | Electromagnetic radiation           | No frequency exceeding standard                                                              |
|                         | Power consumption                   | 5W MAX                                                                                       |
|                         | Installation mode                   | Wall hanging, table support, gate installation, floor support                                |
|                         | Equipment dimensions                | 123.5(wide)*84(thick)*361.3(high) mm                                                         |
|                         | Weight of equipment                 | 1.5 KG                                                                                       |
|                         | Column aperture                     | mm 33                                                                                        |
| Module                  | Function                            | Introduction                                                                                 |



|                      |                        |                                                                                                                                                                                                                                                                                                                                                |
|----------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Display interface    | Boot interface         | Neutral (customizable)                                                                                                                                                                                                                                                                                                                         |
|                      | Verification interface | <p>1. includes display please punch prompt, network signal (whether binding/networking), time, date, week.</p> <p>2. network connection abnormal pop-up prompt, notification display, ID information, verification success or failure prompt customizable.</p> <p>3. version number, number of people, number of pictures in base library.</p> |
|                      | Menu interface         | menu style as well as human-computer interaction, how to enter other modules, management, etc.                                                                                                                                                                                                                                                 |
| User management      | User Add               | New Local Apps                                                                                                                                                                                                                                                                                                                                 |
|                      | User Delete            | Deleted person on local application                                                                                                                                                                                                                                                                                                            |
| Equipment management | Unlock Rule            | Time to open after verification                                                                                                                                                                                                                                                                                                                |
|                      | Vergen/RS232           | Vergen format 26/34, RS232                                                                                                                                                                                                                                                                                                                     |
|                      | Language Settings      | Simplified                                                                                                                                                                                                                                                                                                                                     |
|                      | Network Settings       | limited, wireless ,4 G                                                                                                                                                                                                                                                                                                                         |
|                      | Time set               | Time, date, time zone, settings (manual setting and server synchronization)                                                                                                                                                                                                                                                                    |
|                      | Voice settings         | 0-10(0 bit mute, default 5)                                                                                                                                                                                                                                                                                                                    |
|                      | Brightness adjustment  | 1-10(default 5)                                                                                                                                                                                                                                                                                                                                |
| About the machine    | Factory Date           | Factory time for equipment                                                                                                                                                                                                                                                                                                                     |
|                      | Serial number          | Equipment serial number                                                                                                                                                                                                                                                                                                                        |
|                      | Manufacturers          | Name of manufacturer                                                                                                                                                                                                                                                                                                                           |
|                      | Machine Type           | Type of equipment                                                                                                                                                                                                                                                                                                                              |
|                      | Firmware version       | Current firmware version                                                                                                                                                                                                                                                                                                                       |
|                      | Detection update       | (Reserved)                                                                                                                                                                                                                                                                                                                                     |
|                      | Help                   | Help explain documentation                                                                                                                                                                                                                                                                                                                     |
| Other                | Other functions        | Customizable                                                                                                                                                                                                                                                                                                                                   |



## FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.

